IN THE CLAIMS:

Kindly cancel claim 4 without prejudice and amend the claims as follows:

1	1. (Original) A layer 2 switch, comprising:
2	
3	a plurality of ports, at least one port of said plurality of ports capable of being set
4	to a status of root guard protected (RG status);
5	
6	first circuits for running the spanning tree protocol (STP) in said layer 2 switch,
7	said STP capable of selecting said at least one port as either a designated port or as a root
8	port;
9	
10	second circuits for running root guard protocol, and said root guard protocol de-
11	termining whether or not a port set to RG status has been selected by STP as a root port;
12	and,
13	
14	blocking circuits to set said at least one port into blocked status, said blocking cir-
15	cuits setting said at least one port into blocked status in response to said at least one port
16	being both in root guard protected status and selected by STP as a root port.
,	2. (Original) A method of managing a switch for use in a computer network,
1	(- g -)
2	comprising:
3	
4	providing a plurality of ports, at least one port of said plurality of ports capable of
5	being set to a status of root guard protected (RG status);
6	
7	setting said at least one port to RG status;

8	
9	running a spanning tree protocol (STP) in said switch, said STP capable of se-
10	lecting said at least one port as either a designated port or as a root port;
11	
12	running root guard protocol, and said root guard protocol determining whether or
13	not a port set to RG status has been selected by STP as a root port; and,
14	
15	setting said at least one port into blocked status, in response to said at least one
16	port being both in root guard protected status and selected by STP as a root port.
1	3. (Original) A method of managing a switch for use in a computer network,
2	comprising:
3	
4	providing a plurality of ports, at least one port of said plurality of ports capable of
5	being set to a status of root guard protected (RG status);
6	
7	setting said at least one port to RG status;
8	
9	running a spanning tree protocol (STP) in said switch, said STP capable of se-
10	lecting said at least one port as either a designated port or as a root port;
11	
12	determining whether or not said at least one port set to RG status has been se-
13	lected by STP as a root port;
14	
15	setting said at least one port into blocked status in response to said at least one
16	port being both in root guard protected status and selected by STP as a root port.

(Canceled)

1 4.

1	5. (Currently amended) A computer network having a core network and a plurality
2	of customer networks connected thereto by a perimeter port of a perimeter switch in said
3	core network, said perimeter port being connected to a port of a switch in a customer
4	network of the plurality of customer networks, said computer network comprising:
5	
6	a first process for setting said perimeter port to a status of root guard protected
7	(RG status);
8	
9	a second process for running the spanning tree protocol (STP) in said perimeter
10	switch, said STP capable of selecting said perimeter port as either a designated port or as
11	a root port;
12	
13	a third process for executing a root guard protocol, said root guard protocol de-
14	termining whether or not a port set to RG status has been selected by STP as a root port;
15	and,
16	
17	a fourth process for blocking circuits to set said perimeter port into blocked status
18	said blocking circuits setting said perimeter port into blocked status in response to said
19	perimeter port being both in root guard protected status and selected by STP as a root
20	port.
1	6. (Currently amended) Means for operating a A computer network, comprising:
2	(Carrently antended) include for operating a <u>rec</u> compation network, comprising.
3	means for establishing said computer network as having a core network and a plu-
4	rality of customer networks connected thereto by a perimeter port of a perimeter switch in
5	said core network, said perimeter port being connected to a port of a switch in a customer
6	network of the plurality of customer networks;
U	notwork of the pluranty of easiemed hetworks,

7	
8	means for setting said perimeter port to a status of root guard protected (RG
9	status);
10	
11	means for running the spanning tree protocol (STP) in said perimeter switch, said
12	STP capable of selecting said perimeter port as either a designated port or as a root port;
13	
14	means for executing a root guard protocol, said root guard protocol determining
15	whether or not a port set to RG status has been selected by STP as a root port; and,
16	
17	means for setting said perimeter port into blocked status in response to said pe-
18	rimeter port being both in root guard protected status and selected by STP as a root port.
1	7. (Original) A method for operating a computer network switch, said computer
2	network switch having a perimeter port connected to a second switch, comprising:
3	network switch having a permitter port connected to a second switch, comprising.
4	setting said perimeter port to a status of root guard protected (RG status);
5	beams said permitter port to a status of root guide protected (NO status),
6	running a spanning tree protocol (STP) in said computer network switch, said
7	STP capable of selecting said perimeter port as either a designated port or as a root port;
8	or capacite of solvening sum perimeter port as extrest a designation port of as a root port,
9	executing a root guard protocol, said root guard protocol determining whether or
10	not a port set to RG status has been selected by STP as a root port; and,
11	The post of the second and over deserted by bill to a loot post, and,
12	setting said perimeter port into blocked status in response to said perimeter port
13	being both in root guard protected status and selected by STP as a root port.
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- executing a process in a CPU control engine to set said perimeter port to a status
- 3 of root guard protected;
- executing a process in said CPU control engine to run said spanning tree protocol;
- s and,
- executing a process in said CPU control engine to execute said root guard proto-
- 7 col.
- 9. (Currently amended) A computer readable memory device, comprising: said
- 2 computer readable memory device containing instructions for execution by a processor
- for practice of the method of claim 7.
- 1 10. (Currently amended) Electromagnetic signals propagated over a computer net-
- work, eomprising: said electromagnetic signals having instructions for execution by a
- 3 processor for practice of the method of claim 7.

Please add the following new claims 11-20:

- 1 11. (New) The computer network of claim 5, wherein two or more processes of said
- 2 first process, second process, third process and fourth process is the same process.
- 1 12. (New) A method for operating a switch for use in a computer network, com-
- 2 prising:
- setting at least one port of said switch to root guard protected status (RG status);
- running a spanning tree protocol (STP) capable of selecting said at least one port
 as either a designated port or as a root port;

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8	determining whether or not a port set to RG status has been selected by STP as a
9	root port; and,
10	
11	setting said at least one port into blocked status, in response to said at least one
12	port being both in RG status and selected by STP as a root port.
1	13. (New) A switch, comprising:
2	means for setting at least one port of said switch to root guard protected status
3	(RG status);
4	
5	means for running a spanning tree protocol (STP) capable of selecting said at least
6	one port as either a designated port or as a root port;
7	
8	means for determining whether or not a port set to RG status has been selected by
9	STP as a root port; and,
10	
11	means for setting said at least one port into blocked status, in response to said at
12	least one port being both in RG status and selected by STP as a root port.
1	14. (New) A switch, comprising:
2	a processor; and
3	a memory configured to store instructions for execution by said processor, said
4	instructions for performing the steps of:
5	setting at least one port of said switch to root guard protected status
6	(RG status);
7	running a spanning tree protocol (STP) capable of selecting said at
8	least one port as either a designated port or as a root port;

9	determining whether or not a port set to RG status has been se-
10	lected by STP as a root port; and,
11	setting said at least one port into blocked status, in response to said
12	at least one port being both in RG status and selected by STP as a root
13	port.
1	15. (New) The switch of claim 14, wherein said processor resides on a linecard in
2	said switch.
•	
1	16. (New) The switch of claim 14, wherein said processor resides on a central proc-
2	essing unit in said switch.
1	17. (New) The switch of claim 14, wherein said memory is located on a linecard in
2	said switch.
_	
1	18. (New) The switch of claim 14, wherein said memory is located in a global mem-
2	ory unit in said switch.
	10 (Niew) A mitch commission.
1	19. (New) A switch, comprising:
2	
3	a plurality of ports, at least one port of said plurality of ports capable of being set
4	to a status of root guard protected (RG status);
5	finat aircuits for manning the annual as two sectors (CCD) is a little of the company
6	first circuits for running the spanning tree protocol (STP) in said switch, said STP
7	capable of selecting said at least one port as either a designated port or as a root port;
8	

9	second circuits for running root guard protocol, and said root guard protocol de-
10	termining whether or not a port set to RG status has been selected by STP as a root port;
11	and,
12	
13	blocking circuits to set said at least one port into blocked status, said blocking cir-
14	cuits setting said at least one port into blocked status in response to said at least one port
15	being both in root guard protected status and selected by STP as a root port.
1	20. (New) A switch, comprising:
2	a memory configured to store a data structure containing one or more entries, said
3	entries having a "state" field and a "role" field, said state field having a value of
4	"blocked" or a value of "forwarding", said data structure having,
5	a first entry having the role field set to "root port" and the state
6	field set to forwarding;
7	a second entry having the role field set to "designated port" and the
8	state field set to forwarding;
9	a third entry having the role field set to "blocked port" and the state
10	field set to blocked; and,
11	a fourth entry having the role field set to "root inconsistent port"
12	and the state field set to blocked; and,
13	a processor to write and read said data structure in implementing a root guard
14	protocol.